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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Christine L. Brakel, et al.)
Serial No.: 446,235) Group Art Unit: 183
Filing Date: December 4, 1989) Examiner: Gary Kunz
For: Modified Nucleotide Compounds)

EXPRESS MAIL CERTIFICATE	
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I hereby certify that this paper and the attachments herein are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington DC 20231	
 Ronald C. Fedus Reg. No. 32567	MAY 31, 1991 Date

May 31, 1991
New York, New York

Honorable Commissioner
of Patents & Trademarks
Washington, D.C. 20231

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §§1.56 AND 1.99**

Dear Sirs:

Pursuant to the provisions of 37 C.F.R. §§1.56 and 1.99, Applicants wish to bring the following nineteen (19) references to the attention of the U.S. Patent and Trademark Office and the Examiner handling their above-identified application. The first eighteen references were cited in the specification; the nineteenth is the published article [Quartin, et al., Nucleic Acids Research 18:7253-7262 (1989) which served in part as a basis for this application. A copy of each reference (Exhibits 1-19) and a completed Form PTO-1449 (Exhibit 20) are submitted herewith.

These references are:

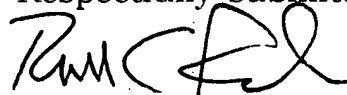
1. van der Krol, et al., BioTechniques, 6:958-976 (1988)
[Exhibit 1];
2. Inoue, et al., Nucleic Acids Symposium Series, 18:221-224
(1987) [Exhibit 2];
3. Marcus-Sekura, et al., Nucleic Acids Research, 15:5749-5763
(1987) [Exhibit 3];
4. Agrawal, et al., Proc. Natl. Acad. Sci. (USA), 85:7079-7083
(1988) [Exhibit 4];
5. Stein, et al., Nucleic Acids Research, 16:3209-3221 (1988)
[Exhibit 5];
6. Sun, et al., Biochemistry, 27:6039-6045 (1988) [Exhibit 6];
7. Sarin, et al., Proc. Natl. Acad. Sci. (USA), 85:7448-7451 (1988)
[Exhibit 7];
8. Quartin, et al., Biochemistry, 28:1040-1047 (1989) [Exhibit 8];
9. Maniatis, et al., Molecular Cloning: A Laboratory Manual,
Cold Spring Harbor Laboratory, pp. 109-110 (1982) [Exhibit 9];
10. Minshull, et al., Nucleic Acids Research, 14:6433-6451
(1986) [Exhibit 10];
11. Cazenave, et al., Nucleic Acids Research, 15:4717-4736
(1987) [Exhibit 11];
12. Miller, et al., Biochimie, 67:769-776 (1985) [Exhibit 12];
13. Maher, et al., Nucleic Acids Research, 16:3341-3358 (1988)
[Exhibit 13];
14. Smith, et al., Proc. Natl. Acad. Sci. (USA) 83:2787-2791 (1986)
[Exhibit 14];
15. Agris, et al., Biochemistry, 25:6268-6275 (1986)
[Exhibit 15];
16. Melton, et al., Nucleic Acids Research, 12:7035-7056
(1984) [Exhibit 16];
17. Agrawal, et al., Tetrahedron Letters, 28:3539-3542 (1987)
[Exhibit 17];
18. Dash, et al., Proc. Natl. Acad. Sci. (USA) 84:7896-7900
(1987) [Exhibit 18]; and
19. Quartin, et al., Nucleic Acids Research 18:7253-7262
(1989) [Exhibit 19].

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Page 3 (Information Disclosure Statement - May 31, 1991)

Applicants respectfully request that the Examiner carefully consider each of the above submitted references and make them of record in the instant application.

With respect to the Quartin et al., article [Exhibit 19], Applicants respectfully request that this article not be used to reject any of the instant claims because, as noted above, it served in part as the basis for the instant application. Furthermore, the authors of this article, which was published less than one year before the filing date of the instant application, are identical to the instant inventors.

Respectfully submitted,



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